

**ABSTRACT OF THE INVENTION**

An improved method, system and arrangement for treatment of urinary incontinence is disclosed, in which a portion of innervated smooth muscle (2) is transplanted and disposed around the urethra to provide a urethral sphincter (2). Electrical stimulation, by an implanted stimulator (1), maintains continuous tone in the sphincter. A remote controller (7) permits the sphincter (2) to be allowed to relax, and hence permit urine to flow out of the bladder.